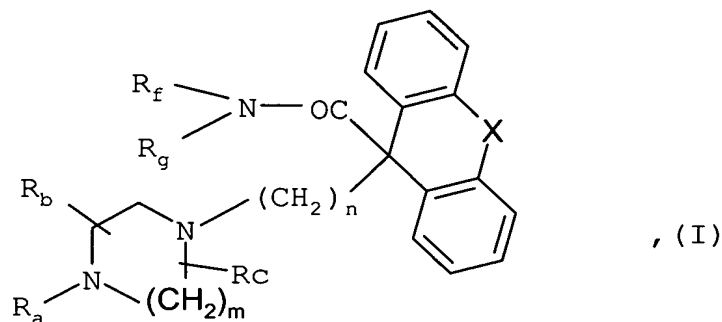


## CLEAN SET OF NEW CLAIMS

--11 (New). A compound of the formula (I)



wherein

n denotes the number 1, 2, 3, 4 or 5,

m denotes the number 2 or 3,

X denotes a carbon-carbon bond, an oxygen atom, a methylene, ethylene, imino or N-(C<sub>1-3</sub>-alkyl)-imino group,

R<sub>a</sub> denotes a phenyl group or heteroaryl group substituted by the groups R<sub>1</sub> and R<sub>2</sub>,  
wherein

R<sub>1</sub> denotes a hydrogen, fluorine, chlorine or bromine atom, a C<sub>1-3</sub>-alkyl group wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, a hydroxy group, a C<sub>1-4</sub>-alkoxy group wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, a phenoxy, heteroaryloxy, phenyl-C<sub>1-3</sub>-alkoxy, carboxy, C<sub>1-3</sub>-alkoxycarbonyl, aminocarbonyl, C<sub>1-3</sub>-alkyl-aminocarbonyl, N,N-di-(C<sub>1-3</sub>-alkyl)-aminocarbonyl, nitro, amino, C<sub>1-3</sub>-alkylamino,

di-(C<sub>1-3</sub>-alkyl)-amino, phenyl-C<sub>1-3</sub>-alkyl-amino, N-(C<sub>1-3</sub>-alkyl)-phenyl-C<sub>1-3</sub>-alkylamino, C<sub>1-3</sub>-alkylcarbonylamino, N-(C<sub>1-3</sub>-alkyl)-C<sub>1-3</sub>-alkylcarbonylamino, C<sub>1-3</sub>-alkylsulphonylamino or N-(C<sub>1-3</sub>-alkyl)-C<sub>1-3</sub>-alkylsulphonylamino group, wherein the abovementioned phenyl or heteroaryl moieties of the group R<sub>1</sub> are optionally substituted by one to five fluorine, chlorine or bromine atoms, a C<sub>1-3</sub>-alkyl group wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, a hydroxy group, or a C<sub>1-4</sub>-alkoxy group wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, and

R<sub>2</sub> denotes a hydrogen, fluorine, chlorine or bromine atom, a C<sub>1-3</sub>-alkyl group wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, or a C<sub>1-4</sub>-alkoxy group wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, or

A<sup>2</sup>  
R<sub>1</sub> and R<sub>2</sub> together represent a methylenedioxy group,

or R<sub>a</sub> denotes a monocyclic heteroaryl or phenyl group which is substituted in each case by a phenyl or monocyclic heteroaryl group, while the abovementioned phenyl groups and heteroaryl groups are optionally in each case substituted by a fluorine, chlorine or bromine atom, a C<sub>1-3</sub>-alkyl group wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, by a hydroxy, C<sub>1-3</sub>-alkoxy, carboxy, C<sub>1-3</sub>-alkoxycarbonyl, aminocarbonyl, C<sub>1-3</sub>-alkylaminocarbonyl or N,N-di-(C<sub>1-3</sub>-alkyl)-aminocarbonyl group,

R<sub>b</sub> and R<sub>c</sub> independently of one another denote a hydrogen atom or a C<sub>1-3</sub>-alkyl group and

R<sub>f</sub> and R<sub>g</sub>, which are identical or different, denote hydrogen atoms, C<sub>1-6</sub>-alkyl groups wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, C<sub>3-7</sub>-cycloalkyl groups, phenyl, heteroaryl, phenyl-C<sub>1-3</sub>-alkyl or heteroaryl-C<sub>1-3</sub>-alkyl groups, while the abovementioned phenyl groups and heteroaryl groups are optionally in each case be substituted by one to three fluorine, chlorine or bromine atoms, by one to

three C<sub>1-3</sub>-alkyl groups wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, by one to three hydroxy groups, one to three C<sub>1-3</sub>-alkoxy groups wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, or by a carboxy, C<sub>1-3</sub>-alkoxycarbonyl, aminocarbonyl, C<sub>1-3</sub>-alkylaminocarbonyl, N,N-di-(C<sub>1-3</sub>-alkyl)-aminocarbonyl, N,N-di-(C<sub>1-3</sub>-alkyl)-amino, nitro or amino group, or

R<sub>f</sub> and R<sub>g</sub> together with the nitrogen atom between them denote a 3- to 7-membered cycloalkyleneimino group, while the methylene group in the 4 position of a 6- or 7-membered cycloalkyleneimino group is optionally replaced by an oxygen or sulphur atom, by a sulphinyl, sulphonyl, imino or N-(C<sub>1-3</sub>-alkyl)-imino group,

wherein the tricyclic group in the abovementioned formula I are mono- or disubstituted by fluorine or chlorine atoms, by methyl or methoxy groups and the substituents are identical or different,

and wherein the abovementioned heteroaryl groups in this claim are 6-membered heteroaryl groups containing one, two or three nitrogen atoms, or 5-membered heteroaryl groups containing one to four heteroatoms selected from nitrogen, oxygen and sulphur, while hydrogen atoms bound to nitrogen is optionally replaced by C<sub>1-3</sub>-alkyl groups, or the isomers or the salts thereof.

12 (New). The compound according to claim 11, wherein

n denotes the number 3, 4 or 5,

m denotes the number 2 or 3,

X denotes a carbon-carbon bond, an oxygen atom, a methylene, ethylene, imino or N-(C<sub>1-3</sub>-alkyl)-imino group,

$R_a$  denotes a phenyl group or heteroaryl group substituted by the groups  $R_1$  and  $R_2$ , wherein

$R_1$  denotes a hydrogen, fluorine, chlorine or bromine atom, a  $C_{1-3}$ -alkyl group wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, a hydroxy group, a  $C_{1-4}$ -alkoxy group wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, a phenoxy, heteroaryloxy, phenyl- $C_{1-3}$ -alkoxy, carboxy,  $C_{1-3}$ -alkoxycarbonyl, aminocarbonyl,  $C_{1-3}$ -alkylaminocarbonyl, N,N-di-( $C_{1-3}$ -alkyl)-aminocarbonyl, nitro, amino,  $C_{1-3}$ -alkylamino, di-( $C_{1-3}$ -alkyl)-amino, phenyl- $C_{1-3}$ -alkyl-amino, N-( $C_{1-3}$ -alkyl)-phenyl- $C_{1-3}$ -alkylamino,  $C_{1-3}$ -alkylcarbonylamino, N-( $C_{1-3}$ -alkyl)- $C_{1-3}$ -alkylcarbonylamino,  $C_{1-3}$ -alkylsulphonylamino or N-( $C_{1-3}$ -alkyl)- $C_{1-3}$ -alkylsulphonylamino group, wherein the abovementioned phenyl or heteroaryl moieties of the group  $R_1$  are optionally substituted by one to five fluorine, chlorine or bromine atoms, a  $C_{1-3}$ -alkyl group wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, a hydroxy group, or a  $C_{1-4}$ -alkoxy group wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, and

$R_2$  denotes a hydrogen, fluorine, chlorine or bromine atom, a  $C_{1-3}$ -alkyl group wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, or a  $C_{1-4}$ -alkoxy group wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, or

$R_1$  and  $R_2$  together represent a methylenedioxy group,

or  $R_a$  denotes a monocyclic heteroaryl or phenyl group which is substituted in each case by a phenyl or monocyclic heteroaryl group, wherein the abovementioned phenyl groups and heteroaryl groups are optionally in each case be substituted by a fluorine, chlorine or

bromine atom, a C<sub>1-3</sub>-alkyl group wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, by a hydroxy or C<sub>1-3</sub>-alkoxy group,

R<sub>b</sub> and R<sub>c</sub> independently of one another denote a hydrogen atom or a C<sub>1-3</sub>-alkyl group and

R<sub>f</sub> and R<sub>g</sub>, which are identical or different, denote hydrogen atoms, C<sub>1-6</sub>-alkyl groups wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, C<sub>3-7</sub>-cycloalkyl groups, phenyl, heteroaryl, phenyl-C<sub>1-3</sub>-alkyl or heteroaryl-C<sub>1-3</sub>-alkyl groups, wherein the abovementioned phenyl groups and heteroaryl groups are optionally in each case be substituted by one to three fluorine, chlorine or bromine atoms, by one to three C<sub>1-3</sub>-alkyl groups wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, by one to three hydroxy groups, one to three C<sub>1-3</sub>-alkoxy groups wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, or by a carboxy, C<sub>1-3</sub>-alkoxycarbonyl, aminocarbonyl, C<sub>1-3</sub>-alkylaminocarbonyl, N,N-di-(C<sub>1-3</sub>-alkyl)-aminocarbonyl, N,N-di-(C<sub>1-3</sub>-alkyl)-amino, nitro or amino group, or and

A<sup>2</sup> R<sub>f</sub> and R<sub>g</sub> together with the nitrogen atom between them denote a 3- to 7-membered cycloalkyleneimino group, wherein the methylene group in the 4 position of a 6- or 7-membered cycloalkyleneimino group is optionally replaced by an oxygen or sulphur atom, by a sulphinyl, sulphonyl, imino or N-(C<sub>1-3</sub>-alkyl)-imino group.

13. The compound according to claim 11, wherein

n denotes the number 3, 4 or 5,

m denotes the number 2 or 3,

X denotes a carbon-carbon bond or an oxygen atom,

R<sub>a</sub> denotes a phenyl group or heteroaryl group substituted by the groups R<sub>1</sub> and R<sub>2</sub>, wherein

A<sub>2</sub>

R<sub>1</sub> denotes a hydrogen, fluorine, chlorine or bromine atom, a C<sub>1-3</sub>-alkyl group wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, a hydroxy group, a C<sub>1-4</sub>-alkoxy group wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, a phenoxy, heteroaryloxy, phenyl-C<sub>1-3</sub>-alkoxy, carboxy, C<sub>1-3</sub>-alkoxycarbonyl, aminocarbonyl, C<sub>1-3</sub>-alkylaminocarbonyl, N,N-di-(C<sub>1-3</sub>-alkyl)-aminocarbonyl, nitro, amino, C<sub>1-3</sub>-alkylamino, di-(C<sub>1-3</sub>-alkyl)-amino, phenyl-C<sub>1-3</sub>-alkyl-amino, N-(C<sub>1-3</sub>-alkyl)-phenyl-C<sub>1-3</sub>-alkylamino, C<sub>1-3</sub>-alkylcarbonylamino, N-(C<sub>1-3</sub>-alkyl)-C<sub>1-3</sub>-alkylcarbonylamino, C<sub>1-3</sub>-alkylsulphonylamino or N-(C<sub>1-3</sub>-alkyl)-C<sub>1-3</sub>-alkylsulphonylamino group, wherein the abovementioned phenyl or heteroaryl moieties of the group R<sub>1</sub> are optionally substituted by one to five fluorine, chlorine or bromine atoms, a C<sub>1-3</sub>-alkyl group wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, a hydroxy group, or a C<sub>1-4</sub>-alkoxy group wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, and

R<sub>2</sub> denotes a hydrogen, fluorine, chlorine or bromine atom, a C<sub>1-3</sub>-alkyl group wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, or a C<sub>1-4</sub>-alkoxy group wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, or

R<sub>1</sub> and R<sub>2</sub> together represent a methylenedioxy group,

or R<sub>a</sub> denotes a monocyclic heteroaryl or phenyl group which is substituted in each case by a phenyl or monocyclic heteroaryl group, wherein the abovementioned phenyl groups and heteroaryl groups are optionally in each case be substituted by a fluorine, chlorine or bromine atom, a C<sub>1-3</sub>-alkyl group wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, by a hydroxy or C<sub>1-3</sub>-alkoxy group,

$R_b$  and  $R_c$  independently of one another denote a hydrogen atom or a methyl group and

$R_f$  denotes a hydrogen atom, a  $C_{1-6}$ -alkyl group wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, a  $C_{3-7}$ -cycloalkyl group, phenyl, heteroaryl, phenyl- $C_{1-3}$ -alkyl or heteroaryl- $C_{1-3}$ -alkyl group, while the abovementioned phenyl groups and heteroaryl groups are optionally in each case be substituted by one to three fluorine, chlorine or bromine atoms, by one to three  $C_{1-3}$ -alkyl groups wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, by one to three hydroxy groups, one to three  $C_{1-3}$ -alkoxy groups wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, or by a nitro or amino group, and

$R_g$  denotes a hydrogen atom.

14(New). The compound according to claim 11, wherein

$n$  denotes the number 4,

$m$  denotes the number 2,

$X$  denotes a carbon-carbon bond or an oxygen atom,

$R_a$  denotes a phenyl group or heteroaryl group substituted by the groups  $R_1$  and  $R_2$ ,  
wherein

$R_1$  denotes a hydrogen, fluorine or chlorine atom, a  $C_{1-3}$ -alkyl group wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, a  $C_{1-4}$ -alkoxy group, a phenoxy group, a phenyl- $C_{1-3}$ -alkoxy or a nitro or amino group,

wherein the abovementioned phenyl moiety of the phenoxy group is optionally substituted by a chlorine atom or by a methoxy group,

$R_2$  denotes a hydrogen atom, a chlorine atom or a  $C_1$ - $C_4$ -alkoxy group,

or  $R_a$  denotes a monocyclic heteroaryl or phenyl group which is substituted in each case by a phenyl group,

$R_b$  and  $R_c$  independently of one another denote a hydrogen atom or a  $C_{1-3}$ -alkyl group and

$R_f$  denotes a  $C_1$ - $C_6$ -alkyl group wherein the hydrogen atoms are optionally wholly or partly replaced by fluorine atoms, a phenyl- $C_{1-3}$ -alkyl group, while the abovementioned phenyl group is optionally substituted in each case by a fluorine atom or by a  $C_1$ - $C_3$ -alkoxy group, and

$R_g$  denotes a hydrogen atom.

A2

15(New). A compound chosen from

9-[4-(4-biphenyl-3-yl-piperazin-1-yl)-butyl]-9H-fluorene-9-carboxylic acid-(2,2,2-trifluoroethyl)-amide and

9-[4-(4-biphenyl-4-yl-piperazin-1-yl)-butyl]-9H-fluorene-9-carboxylic acid-(2,2,2-trifluoroethyl)-amide

or the isomers and the salts thereof.

16(New). A physiologically acceptable salt of the compound according to claim 11.

17(New). A pharmaceutical composition comprising a pharmaceutically effective amount of a compound according to claim 11 with one or more pharmaceutically acceptable inert carriers and/or diluents.



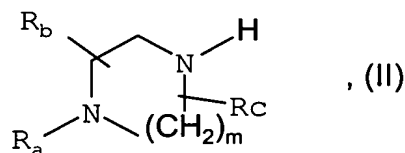
18(New). A method of a lowering plasma levels of atherogenic lipoproteins in a patient, said method comprising administering to a patient in need thereof a pharmaceutically effective amount of a compound according to claim 11.

19(New). A method of treating a disease selected from hyperlipidaemias, atherosclerosis and the clinical sequela thereof, diabetes mellitus, adiposity and pancreatitis, said method comprising administering to a patient in need thereof a pharmaceutically effective amount of a compound according to claim 11.

20(New). The method according to either of claims 18 or 19 wherein the compound according to claim 11 is combined with another lipid-lowering agent.

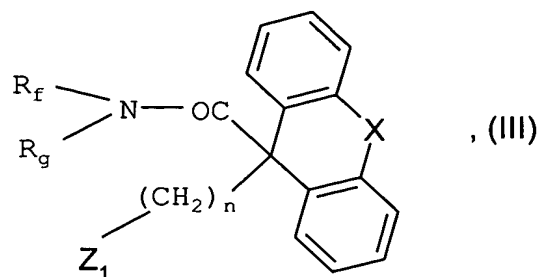
21(New). Process for preparing a compound of the formula (I) according to claim 1, comprising

a) reacting under suitable conditions a compound of formula



wherein

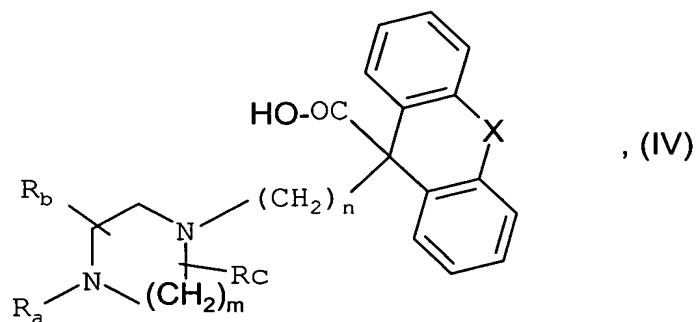
R<sub>a</sub>, R<sub>b</sub> and R<sub>c</sub> are defined as in claims 1, with a compound of formula



wherein

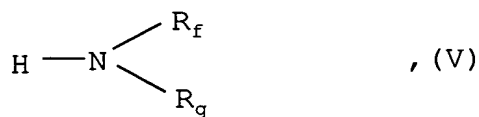
n, R<sub>f</sub>, R<sub>g</sub> and the tricyclic system are defined as in claims 1 and Z<sub>1</sub> denotes a nucleofugic leaving group, or

b) reacting under suitable conditions a compound of formula



wherein

the tricyclic system is defined as in claims 1, with an amine of formula



wherein

R<sub>f</sub> and R<sub>g</sub> are defined as in claims 1, or with the reactive derivatives thereof and

c) optionally reducing under suitable conditions the product of a) or b) which contains a nitro group if desired into a corresponding amino compound and/or

d) if  $R_f$  denotes a hydrogen atom alkylating under suitable conditions the product into a corresponding compound wherein  $R_f$  denotes a  $C_{1-3}$ -alkyl or phenyl- $C_{1-3}$ -alkyl group, and/or

e) cleaving under suitable conditions any protecting group using to protect reactive groups during the reactions and/or

resolving the product any of the product above into its stereoisomers and/or

converting any of the products above into the physiologically acceptable salts thereof.--

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